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Pricelist Feeder

place_it I valid from 01/2002

<i>Tape feeder P8</i> to feed components in 8 mm paper tapes	Order no.: 9040100	€	112,00
<i>Tape feeder B8</i> to feed components in 8 mm blister tapes	Order no.: 9040110	€	112,00
<i>Tape feeder 12</i> , to feed components in 12 mm tapes	Order no.: 9040120	€	121,00
<i>Tape feeder 12 T</i> , to feed components in deep 12 mm tapes	Order no.: 9040125	€	215,50
<i>Tape feeder 16</i> , to feed components in 16 mm tapes	Order no.: 9040130	€	130,00
<i>Tape feeder 16 T</i> , to feed components in deep 16 mm tapes	Order no.: 9040135	€	215,50
<i>Tape feeder 24 T</i> , to feed components in deep 24 mm tapes	Order no.: 9040145	€	251,00
<i>Feeder carrier 8</i> , to fix 5 feeders with tapes 8 mm wide	Order no.: 9040010	€	87,00
<i>Feeder carrier 12</i> , to fix 4 feeders with tapes 12 mm wide	Order no.: 9040020	€	81,50
<i>Feeder carrier 16</i> , to fix 3 feeders with tapes 16 mm wide	Order no.: 9040030	€	75,00

Technische Änderungen vorbehalten, das Angebot ist freibleibend.
Alle Preise verstehen sich zzgl. MWSt., Fracht und Verpackung.

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Pricelist spare parts Feeder

place_it I valid from 01/2002

Drive drum for 8 mm paper feeder	Order no.: 0100600	€	5,00
Drive drum for 8 mm blister feeder	Order no.: 0100610	€	5,00
Drive drum for 12 mm feeder	Order no.: 0100620	€	5,00
Drive drum for 12 mm deep feeder	Order no.: 0100630	€	18,50
Drive drum for 16 mm feeder	Order no.: 0100640	€	5,00
Drive drum for 16 mm deep feeder	Order no.: 0100650	€	18,50
Drive drum for 24 mm feeder	Order no.: 0100660	€	18,50

Drive drum included: guide reel, sprocket, racket wheel

Rubber-belt 85x2,5, (10 pcs./pack)	Order no.: 0750155	€	18,00
Rubber-belt 85x2,5, (50 pcs./pack)	Order no.: 0750156	€	79,50

Repairing set for tape feeder P8	Order no.: 0100300	€	14,50
Repairing set for tape feeder B8	Order no.: 0100305	€	14,50
Repairing set for tape feeder B12	Order no.: 0100310	€	15,00
Repairing set for tape feeder B16	Order no.: 0100315	€	15,00

Repairing set included: feeder guide front, feeder guide back, slide bar, spool snap, drive drum, , rubber-belt, 2x crew M3x4, 2x screw KB 30x10.



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Pricelist nozzles

place_it I valid from 01/2002

<i>Nozzle no. 1 "CHIP"</i>	Order no.: 9040350	€	24,00
<i>Nozzle tip no. 1 "CHIP"</i>	Order no.: 9040355	€	9,50
<i>Nozzle no. 1/S metal</i>	Order no.: 9040352	€	76,00
<i>Nozzle no. 2 "MINIMELF"</i>	Order no.: 9040360	€	24,00
<i>Nozzle tip no. 2 "MINIMELF"</i>	Order no.: 9040365	€	9,50
<i>Nozzle no. 2 short</i>	Order no.: 9040361	€	31,50
<i>Nozzle Micro Melf metal</i>	Order no.: 9040363	€	94,00
<i>Nozzle no. 3 "IC Small"</i>	Order no.: 9040370	€	24,00
<i>Nozzle tip no. 3 "IC Small"</i>	Order no.: 9040375	€	9,50
<i>Nozzle no. 3 short</i>	Order no.: 9040374	€	28,00
<i>Nozzle no. 3 metal</i>	Order no.: 9040372	€	36,50
<i>Nozzle no. 4 "MELF"</i>	Order no.: 9040380	€	24,00
<i>Nozzle tip no. 4 "MELF"</i>	Order no.: 9040385	€	9,50
<i>Nozzle no. 5 "IC Large"</i>	Order no.: 9040390	€	24,00
<i>Nozzle tip no. 5 "IC Large"</i>	Order no.: 9040395	€	9,50
<i>Nozzle no. 5 metal</i>	Order no.: 9040392	€	36,50
<i>Nozzle no. 6 "Tableau"</i>	Order no.: 9040400	€	36,50
<i>Nozzle no. 6 metal</i>	Order no.: 9040402	€	36,50
<i>Nozzle no. 6 metal Q</i>	Order no.: 9040403	€	46,00
<i>Nozzle no. 0603 S metal</i>	Order no.: 9040451	€	81,00
<i>Nozzle set complete no. 1-6</i>	Order no.: 9040450	€	154,50

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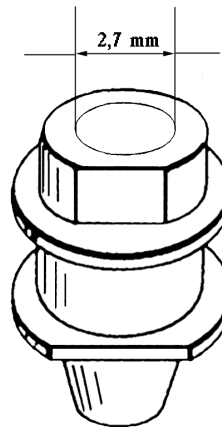
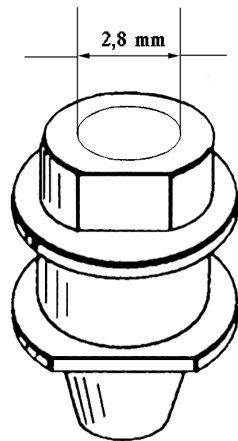
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Change Nozzle Rubber	Service	E1...6
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1. Nozzle Body

There are two different bodies for short nozzles:

Diameter 2.8 mm for rubber „Chip“ - Diameter 2.7 mm for all other rubbers

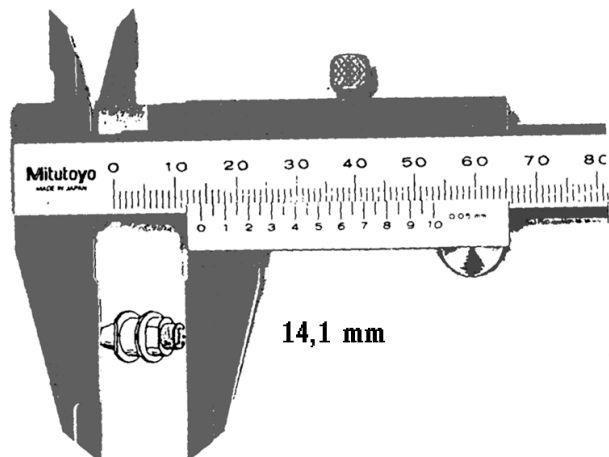
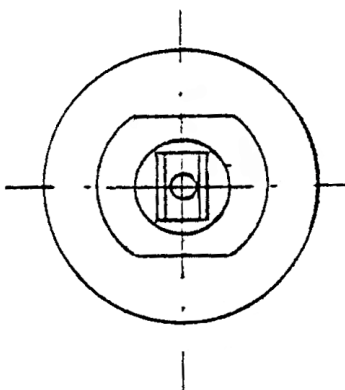


2. Removal of the used rubbers

Remove carefully the used rubber and all glue and grease remains on the aluminium body.

3. Insertion of the new rubber

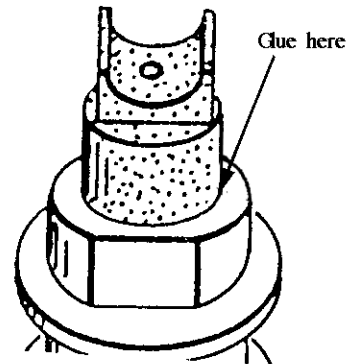
Place a new rubber on the aluminium body with the corresponding diameter. Adjust exactly length, direction and uprightness (see illustration).



Change Nozzle Rubber	Service	E1...6
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4. Gluing of the two parts

Put some superglue on a suitable base and insert with a pinhead a little bit between the slit of the aluminium body and the rubber insert. Leave to dry.

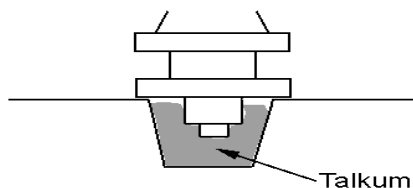


5. Hole diameter

Please remember that the inner diameter of the new rubber is smaller delivered ex works. For the adjustment to your vacuum thresholds the rubber maybe has to be drilled with a drill 0.9 mm and a very fast drilling machine.

6. Maintenance and Cleaning of the Nozzle

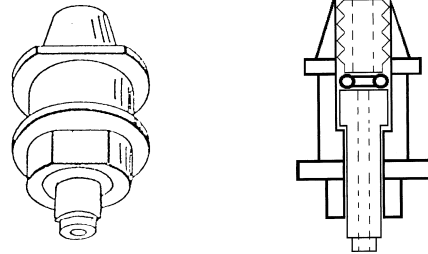
The nozzle has to be cleaned daily with a 0.8 mm drill. Then place it with the rubber in talcum powder over night. Blow on it before inserting.



Subject to technical changes.

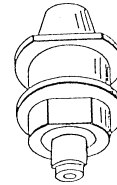
Nozzles Vacuum tools	Order numbers see table	E1...6
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Designation: **0603S**
Usage: case 0603
 1.5 x 0.76 mm
Nozzle body: special body
Insert: steel Ø1,3/0.7 mm
Characteristics: small suction hole to avoid small components being sucked up into the nozzle.
 Outside diameter fits the case.
Colour: red
Order number: 9040451



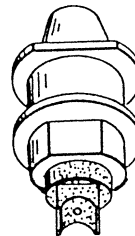
springy - insert

Designation: **No.1 metal S**
Usage: Chip, 0805, 1206, SOT etc.
Nozzle body: special body
Insert: steel Ø1,5/0.9 mm
Characteristics: Due to the usage of a metal insert the centering is improved. Outside diameter fits the case.
Colour: yellow
Order number: 9040352

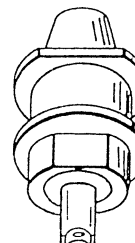


springy - insert

Designation: **No.2 short**
Usage: case Mini-Melf
Nozzle body: special body
Insert: rubber No. 2
Characteristics: The total length of the nozzle is 13.7 mm to improve the sucking of components.
Colour: brown
Order number: 9040361



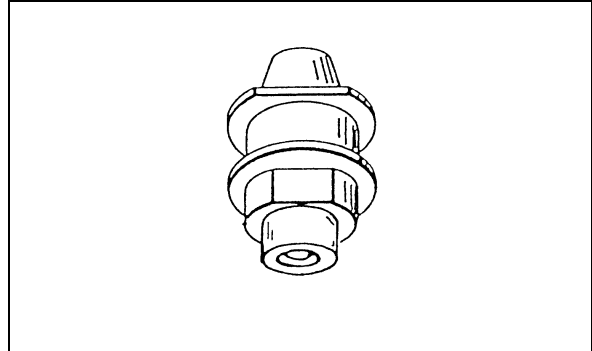
Designation: **Micromelf**
Usage: case Micro-Melf
Nozzle body: special body
Insert: steel Ø1,3/0.7 mm
springy insert
Characteristics: Outside diameter and rounding fit the case.
 Small suction hole.
Colour: white
Order number: 9040363



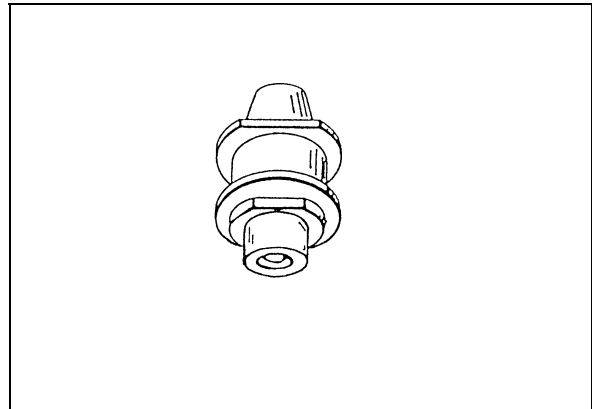
springy - insert

Nozzles Vacuum tools	Order numbers see table	E1...6
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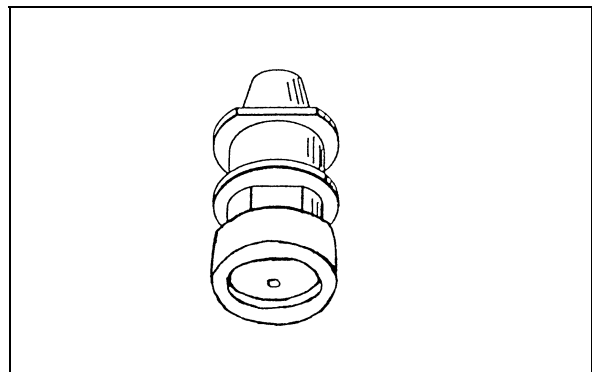
Designation:	No.3 metal
<u>Usage:</u>	ICs, Elkos etc.
<u>Nozzle body:</u>	order no.: 9040330
<u>Insert:</u>	brass 3M
<u>Characteristics:</u> Due to the usage of a metal insert the centering is improved. No more friction of the rubber insert.	
Colour: green	
Order number: 9040372	



Designation:	No.3 short
<u>Usage:</u>	cases higher than 2.8 mm
<u>Nozzle body:</u>	special body
<u>Insert:</u>	rubber insert No.3
<u>Characteristics:</u> Due to shortening of the nozzle body the components can be aligned within the 3mm centering tips.	
<u>Attention:</u> pick up position - shorter nozzle	
Colour: orange	
Order number: 9040374	

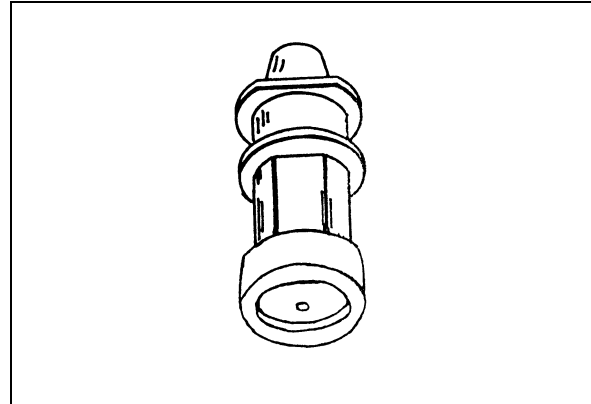


Designation:	No.5 metal
<u>Usage:</u>	ICs, Elkos etc.
<u>Nozzle body:</u>	order no.: 9040330
<u>Insert:</u>	brass 5 M
<u>Characteristics:</u> Due to the usage of a metal insert the centering is improved. No more friction of the rubber insert.	
Colour: black	
Order number: 9040392	

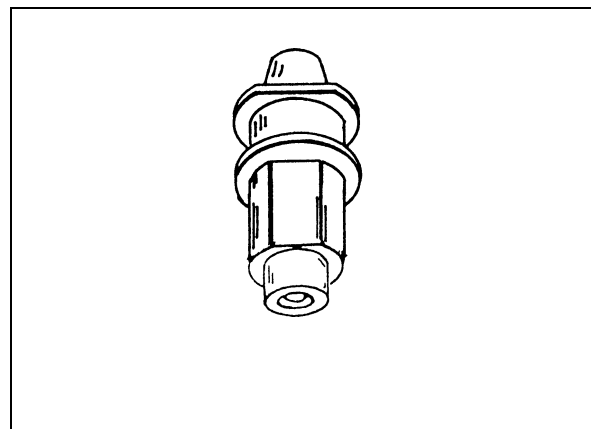


Nozzles Vacuum tools	Order numbers see table	E1...6
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Designation:	No.6 metal
<u>Usage:</u>	ICs, Elkos etc.
<u>Nozzle body:</u>	special case 2.8
<u>Insert:</u>	brass 5M
<u>Characteristics:</u> Due to the usage of a metal insert the centering is improved. No more friction of the rubber insert.	
Colour: blue	
Order number: 9040402	



Designation:	No.6 metal Q
<u>Usage:</u>	QFPs
<u>Nozzle body:</u>	special case
<u>Insert:</u>	brass 3M
<u>Characteristics:</u> Due to the unfavourable relation of length and width, the lower centering level cannot be shut completely. The smaller insert solves this problem. Nozzle body is changed.	
Colour: violett	
Order number: 9040403	



Nozzle inserts

Designation:	Insert 3M
<u>Usage :</u>	see nozzle No.3 metal
<u>Material:</u>	brass
Order number: 9040376	

Ask for special nozzles !

Designation:	Insert 5M
<u>Usage :</u>	see nozzle No.5 metal
<u>Material:</u>	brass
Order number: 9040396	

The program calls the different nozzles through the variable E..

Subject to technical changes.



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Pricelist ski slope

place_it I valid from 01/2002

Ski-slope for components in sticks with SO8 cases incl. stop	Order no.: 9040600	€	37,00
Ski-slope for components in sticks with SO14/16 cases incl. stop	Order no.: 9040605	€	37,00
Ski-slope for components in sticks with SO16L cases incl. stop	Order no.: 9040610	€	58,00
Ski-slope for components in sticks with SO20L cases incl. stop	Order no.: 9040615	€	58,00
Ski-slope for components in sticks with SO24L cases incl. stop	Order no.: 9040620	€	58,00
Ski-slope for components in sticks with SO28L cases incl. stop	Order no.: 9040625	€	58,00
Ski-slope for components in sticks with SO24XL cases incl. stop	Order no.: 9040630	€	58,00
Ski-slope for components in sticks with SO28XL cases incl. stop	Order no.: 9040635	€	58,00
Ski-slope for components in sticks with SO32 cases incl. stop	Order no.: 9040640	€	58,00
Ski-slope for components in sticks with PLCC20 cases incl. stop	Order no.: 9040645	€	58,00
Ski-slope for components in sticks with PLCC28 cases incl. stop	Order no.: 9040650	€	58,00
Ski-slope for components in sticks with PLCC32R cases incl. stop	Order no.: 9040655	€	58,00
Ski-slope for components in sticks with PLCC32Q cases incl. stop	Order no.: 9040660	€	58,00
Ski-slope for components in sticks with PLCC44 cases incl. stop	Order no.: 9040665	€	58,00

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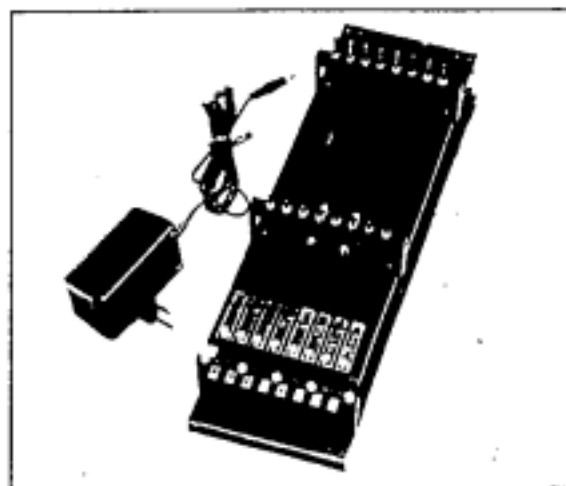


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<i>Ski-slope</i> for components in sticks with PLCC52 cases incl. stop	Order no.: 9040670	€	69,00
<i>Ski-slope</i> for components in sticks with PLCC68 cases incl. stop	Order no.: 9040675	€	85,00
<i>Ski-slope</i> for components in sticks with PLCC84 cases incl. stop	Order no.: 9040680	€	94,50
<i>Ski-slope</i> for components in sticks with SOJ24 cases incl. stop	Order no.: 9040685	€	58,00
<i>Ski-slope</i> for components in sticks with SOJ26 cases incl. stop	Order no.: 9040690	€	58,00
<i>Ski-slope</i> for components in sticks with LCC18 cases incl. stop	Order no.: 9040695	€	58,00
<i>Special ski-slopes</i> for special cases incl. stop	Order no.: 9040699	€	236,50
<i>Base plate</i> 2 tracks for ski-slope SO8/14/16	Order no.: 9040550	€	141,50
<i>Power supply for LF 40</i>	Order no.: 9040700	€	105,00
<i>LF 40 linear feeder standard</i> , included 2 ski-slopes SO8 6 ski-slopes SO14/16 4 base plate 2 tracks 1 power supply	Order no.: 9040510	€	1.677,00
<i>LF 40 linear feeder</i> , without parts, incl. power supply	Order no.: 9040500	€	1.341,50

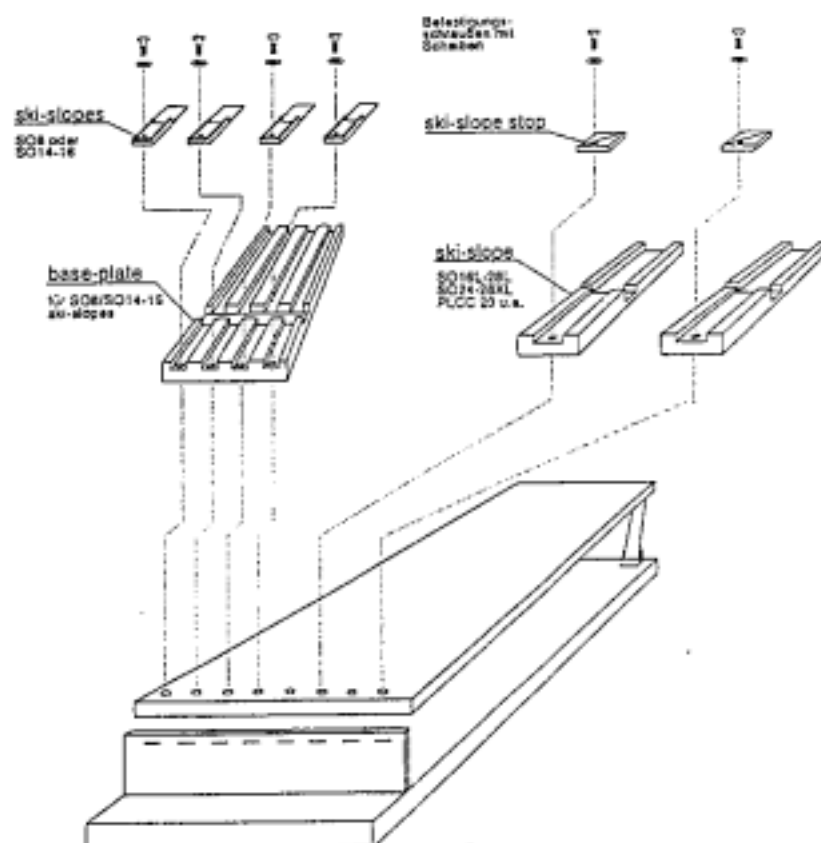
Feeder Stick feeder	Order number see table	LF40
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This latest development further enhances the performance of the low cost place_it automatic pick-and-place machine. It ensures reliable and accurate positioning of SO components prior to being picked up by the pick-and-place head. The feeder consists of a robust base plate of the size of a standard place_it feeder base plate. The power source is a vibrator-block with a potentiometer for adjusting the amplitude. This ensures a reliable and smooth transfer of the components from the tube into the pick-up position. An AC/DC converter is supplied to power the feeder.



The vibrator-block houses the fixtures for the so called ski-slopes. To the ski-slopes are adjusted the tubes which are held in position by set screws. The interplay of gravity and a linear vibration moves the components out of the tubes to the pick-up position.

Combinations:



Feeder Stick feeder	Order no. see table	LF40
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width of component (max.) see table (A)

width of stick (max.) see table (B)

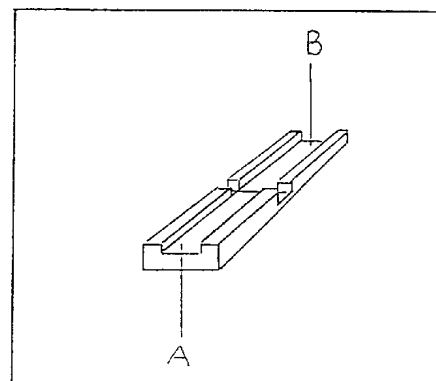


table of ski-slopes:

case type	order-number	marking ski-slope	size in mm A	size in mm B	marking ski-slope-stop
SO 8	9040600	red			
SO 14/16	9040605	blue			
SO 16L	9040610	A / white	11	14,8	1 / white
SO 20L	9040615	A / white	11	14,8	2 / yellow
SO 24L	9040620	A / white	11	14,8	3 / red
SO 28L	9040625	A / white	11	14,8	4 / blue
SO 24XL	9040630	B / red	13	20	1 / green
SO 28XL	9040635	B / red	13	20	2 / rosa
SO 32	9040640	C / brown	15	18,2	C
PLCC 20	9040645	D / green	11	12,1	D
PLCC 28	9040650	E / grey	13	15	E
PLCC 32R	9040655	F / orange	13	15	F
PLCC 32Q	9040660	F / yellow			
PLCC 44	9040665	G / blue	18	20,5	G
PLCC 52	9040670	violet	20,5	23	
PLCC 68	9040675	yellow	26	29	
PLCC 84	9040680	M / rosa	31	33	

Additional we produce special ski-slopes, as:

SO 16M, SOJ 24, SOJ 26, Optokoppler, DPak, PLCC.... Versions, and many more.



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Pricelist spare parts

place_it I valid from 01/2002

board SMK	Order no.: 9100120	€	578,50
board for dispenser DAK	Order no.: 9100230	€	97,50
board UNI	Order no.: 9100140	€	239,50
mother board MEMK	Order no.: 9100150	€	230,50
board CPU	Order no.: 9100110	€	399,00
board for converter	Order no.: 9100100	€	223,50
board KVK	Order no.: 9100190	€	226,50
board HVK	Order no.: 9100160	€	105,00
board SVK	Order no.: 9100180	€	40,50
board ZVK	Order no.: 9100210	€	8,50
board BVK	Order no.: 9100170	€	50,00
board for show_me	Order no.: 9100225	€	305,50
board for keyboard	Order no.: 9100200	€	404,00
centring pliers A	Order no.: 0013225	€	49,50
centring pliers B	Order no.: 0013230	€	49,50
pliers insert I with reduction	Order no.: 0013500	€	42,00
pliers insert II	Order no.: 0013510	€	37,00
guide bearing for centring pliers	Order no.: 0009350	€	126,00
glass scale 1/4	Order no.: 1900140	€	125,00
length-measuring-system LMX	Order no.: 1900120	€	180,00
length-measuring-system LMZ	Order no.: 1900125	€	180,00
length-measuring-system LMY	Order no.: 1900127	€	180,00
light barrier	Order no.: 1620090	€	7,00
Feeder light barrier	Order no.: 1620091	€	33,00
linear measuring scale XL	Order no.: 1900130	€	582,00
linear measuring scale Y	Order no.: 1900135	€	582,00
Z-stroke magnet	Order no.: 1900050	€	289,50
pliers magnet type	Order no.: 1900060	€	184,50
eccentric bearing f. centring system	Order no.: 0009600	€	20,00
bearing for centring system	Order no.: 0009610	€	10,50
centring lever with bearing	Order no.: 0013222	€	34,00
holding spring of nozzle station 2	Order no.: 0009125	€	8,50
nozzle spring	Order no.: 0009130	€	15,00
jaw retraction spring	Order no.: 0009115	€	6,00
Z-magnet spring	Order no.: 0009120	€	10,00
motor digital linear actuator (Dispenser)	Order no.: 1900040	€	324,00
XH motor	Order no.: 9100400	€	720,00
XL motor	Order no.: 9100410	€	576,00
Y motor	Order no.: 9100420	€	562,00
R motor	Order no.: 9100430	€	522,50

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roller guide for Dispenser	Order no.: 0032020	€	198,00
vacuum pump	Order no.: 1900010	€	396,00
Z-operating lever	Order no.: 0013170	€	109,50
valve 3/2 way	Order no.: 1900070	€	129,00
vacuum sensor	Order no.: 1640015	€	81,00
flex cable 2x4	Order no.: 1200180	€	142,50
40 pin. even band cable	Order no.: 1210110	€	50,00
16 pin. even band cable	Order no.: 1210115	€	50,00
foil for display	Order no.: 1900220	€	86,00
pneumatic spring lift 300 N	Order no.: 1900240	€	51,00
nozzle holding angle	Order no.: 0013080	€	140,00
Z-axis kit (*)	Order no.: 0012111	€	1.209,00
Z-system (*)	Order no.: 9050500	€	751,00
electronic unit for LF 40	Order no.: 9040530	€	168,00
vibration magnet for LF 40	Order no.: 1900055	€	290,00
AC/DC converter for LF 40	Order no.: 9040700	€	105,00
head	Order no.: 9100141	€	4.758,00
changing head (*)	Order no.: 9100145	€	1.967,00
centring system	Order no.: 8060030	€	2.210,00
service manual	Order no.: 9041121	€	102,50

(*) Attention:

Z-System:

Z-operating lever with
glued and aimed glass scale 1/4
built in and aimed LMZ with cable
knuckle joint system
LMZ board
stud

Z-axis kit:

quill
ball rotation sleeve
rotate plate up
steel disk

changing head:

factory reworked.
Without centring system !!

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Pricelist Accessories

place_it I Stand 01/2002

Placement table	Order no.: 9040310	€	124,00
Dispenser Station for automatic deposit of SMD glue and solder paste	Order no.: 9041100	€	4.370,00
Waffle pack station for components in trays	Order no.: 9041110	€	2.067,00
Pconvert CAD-data Converter	Order no.: 9070500	€	333,00
Show_me camera system vision system to optimise the pick-up of components	Order no.: 9070510	€	4.026,50
Switch_it remote control	Order no.: 9070100	€	493,50
Software-Update place_it VV complete First-License	Order no.: 9070501	€	1198,00
Software-Update place_it VV complete Second-License	Order no.: 9070502	€	598,00
Software-Update place_it VV Offline Programming	Order no.: 9070503	€	128,00

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